

# ANNALS OF INTERNAL MEDICINE

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$$y'' + p(x)y' + q(x)y = r(x)$$
where  $p(x)$ ,  $q(x)$  and  $r(x)$  are arbitrary functions of  $x$ . The general solution of this equation can be found by the method of variation of parameters.

The method of variation of parameters consists in assuming that the general solution of the homogeneous equation

$$y'' + p(x)y' + q(x)y = 0$$
is of the form

$$y = u_1(x)y_1(x) + u_2(x)y_2(x)$$
where  $y_1(x)$  and  $y_2(x)$  are two linearly independent solutions of the homogeneous equation, and  $u_1(x)$  and  $u_2(x)$  are functions to be determined.

Substituting this expression for  $y$  into the original equation, we obtain a system of two equations for  $u_1(x)$  and  $u_2(x)$ . These equations can be solved by the method of variation of parameters.

The general solution of the original equation is then given by

$$y = y_1(x) + y_2(x) + y_3(x)$$
where  $y_1(x)$  and  $y_2(x)$  are the two linearly independent solutions of the homogeneous equation, and  $y_3(x)$  is a particular solution of the inhomogeneous equation.



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